		TDAC	TIC ODEDATIONS SYSTEMS (TOC)	DDO IECT MOTEC				•				DIST COUNTY	ROUTE KII
		IRAFI	FIC OPERATIONS SYSTEMS (TOS)	PROJECT NOTES (Cor		43	21C, (Liquidtight flex conduit) 2#12 + 12 G.				Caltrans	04 SF	80 1
		AVO	Analog Video Output	25 27C, 7#10 + #10	G.	44	41C, 2#12 + #12 G, 6#	#10 + #10 G.				Jeur 6	Elingsson.
		CCR	Camera Control Receiver	26 41C, 3#6 + #8 G.		45	27C, 2#12 + #12 G, 4#	#10 + #10 G.			etric	REGISTERED ELE	CTRICAL ENGINEER
		CCU	Camera Control Unit Controller Interface Assembly	27 41C, 3#8 + #10 (	) .	46	27C, Liquidtight flex	ible metal				12-6-04	
		COMM	Communication	28 21C, PVC coated	- 2#10 + #10 G.		conduit, 4#10 + #10G. 41C, Liquidtight flex					PLANS APPROVAL	DATE
		FDU	Fiber Distribution Unit		3#12 (for Call Box Power).	47	conduit, (MVDS DLC).	d+iah+	PROFE	SS IONAL		PB POWER, Inc. A Parsons Bi	rinckerhoff Com
		F/0	Fiber Optic		,	48	27C, 3#6 + #8G. Liquio flexible metal condui	it.	FADL WA	LIEDDINE		303 Second S	St., Suite 700N o, CA 94107-1317
		FODM	Fiber Optic Data Modem	30 500 kcmil Bare (	• •	49	21C, PVC coated, 2#10 & 2/C #14	O + #10G	₩ No. — 1				ornia or its officers or
I AH	3/04	FDC	Fiber Optic Drop Cable	31 250 kcmil Bare (	Copper Wire.	50	21C Liquidtight flexi		Exp.12/			the accuracy or co	mpleteness of electronic
П		FPC	Fiber Optic Pigtail Cable	32 #4/0 Bare Coppe	r Wire.		2#10 + #10G, 2/C #14 41C Liquidtight flexi		OF C	CAL IFORM		Caltrans now has	a web site! To get to the
B≺	SED	FSC	Fiber Splice Closure	33 #2 Bare Copper	Wire.	51	3#6 + #8G, 27C #14	ible metal seeduit	Tad.	yelyie	REQUEST FOR	INFORMATION NOT A	DDRESSED IN THIS CCO
	RE V I	FTC IF	Fiber Optic Trunkline Cable Input File	34 41C, 3#6 + #8 G. 3#8 + #10 G		52	41C, Liquidtight flex 4#10 + 2#10 G	ible meral conduit	Λ	SION ONLY	5 12/11/09 TO	WED 11T11 1TV DA	NET S
REVISED		MVDS	Microwave Vehicle Detection Sensor	1941 FITE 3#6 F #10 6.			53 41C, PVC coated 4#10 + 2#10 G			/41/51			
RE V	DATE	PDA	Power Distribution Assembly	· · · · · · · · · · · · · · · · · · ·	(		27C, 4#10 + 2#10 G.		OFESS IO		10/10/08 LIGHTING REVISIONS		ONS
DATE 08/02		PL	Preformed Loop Detection Station	(For Call Box si	gnal).	55	41C, 6#10 + 2#10 G \( 2#12 + #12 G	RED SELL FUMIO 14	RESTOOLE,	NAZ CZ	3 09/24/08 CA	BLE ELECTRICAL	-
D A 08,	060	SCA	Serial Cable Assembly	Metal clad type	cable with PVC overall (for Bike Path Lighting).	56	21C, 2#10 + #10 G	SIO INE	\$515	SO NE	2 02/25/08 CA	DIE TRAV CHAN	25.0
AB	×	SMFO	Single Mode Fiber Optic		(	57	41C, 6#10 + 2#10 G	No. E 8651 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	No . E-1015 Exp.12/31/20	1 20/1	223 02723706 CA	DLE IKAT CHAN	JE 3
> ~	<u></u>	TB	Terminal Box	38			· · · · · · · · · · · · · · · · · · ·	STATE OF CAL IFORMIT	SATE OF CAL IFOR	· //	1 02/19/08 EL		
CALCULATED/ DESIGNED BY	<u>в</u>	TSC TVCP	Trunkline Splice Closure CCTV Camera Control Power Cable	☐ Metal clad type	cable with PVC overall	58	21C, 2#12 + #12 G	W Frakal	$\sim$		MARK DATE	DESCR REVIS	IPTIONS IONS
CNE A	CKE	TVC	CCTV Camera Control Cable		(for Call Box signal).	59	21C, 3#10 + #10 G )	FOR REVISION ONLY	FOR REVISION	DONI V	CONTRACT C	HANGE ORD	ER NO
ALC	HE	TVL	CCTV Camera Video Cable	40 78C, Cable Type	A Fiber Optic.	<b>60</b>	41C, 8#10 + 3#10 G 2#12 + #12 G	TOR REVISION ONLY	$ \begin{array}{c c} \hline 2 & 3 \end{array} $	N ONL I	SHEET	OF	
00	$\stackrel{\circ}{-}$	TVP	CCTV Camera Power Cable	21C, (Liquidtight 2#10 + 10 G.	t flexible metal conduit)	61	27C, 3#10 + 2#10 G \( \frac{7}{2} \)				ar" when shown licable to dif		
		VTDD			/ 🗔					cal fixtures sh			
	IO	VTDD Video Transmitter Duplex Data 27C, 2#12 + #126, 2#10 + #106.			63 41C, 8#10 + 3#10 G				girder	s or crossbeam eams shall be s	s. All weldin	g to the box	
H	MM A	PROJECT NOTES									rawings for rev		
ERSIGHT	GOLEMOHAMMADI	TROOLET NOTES		GENERAL NOTES					ding of electric				
OVE		1	1 27C, 2#12 + #12 G. 2 27C, 2#10 + #10 G.		<ol> <li>Conduit routing is diagrammatic. Pull box locations shall be located as shown on plan drawings. The Contractor shall provide additional pull boxes as required. Exact locations of equipment and devices may be adjusted depending on field conditions or by the Engineer.</li> </ol>				shown on the tower shop drawings for review by the Engineer.				
1.0		2							20. All connections to steel elements of the self suspension bridge superstructure of electric				
S I GN	ВЕНZАD	3	27C. 4#10 + #10 G.		•	•	_	_		and fix	xtures, includir	g conduits,	pull boxes, I
BE	EH7		27C, 3#10 + #10 G.		<ol><li>Minimum size of cond be PVC coated rigid</li></ol>			a conduits shall uits located inside girde	r	fixture welded	es, messenger o or bolted. All	ables and o connection (	thers, shall l details shall
	ш	5			shall be rigid galva	nized	steel.			the wo Engine	rking drawings	for review	and approval
			27C (Type 4), 2#12 + #12 G.		<ol> <li>Conduit fittings for bending radius.</li> </ol>	78 mi	n conduits and larger	shall have a 610 mm mir	imum	3	o ordering any	cable trav	support stru
		6	27C (Type 4), 2#10 + #10 G.		· ·		coo oball be provided	with authorized arior to		Contra	ctor shall:	_	
Z		7	41C, 2-6 pairs #18, IS/OA.		<ol> <li>All conduits, including spares, shall be provided with pull wires prior to cable installations.</li> </ol>				<ul> <li>Refer to Structural of cable tray suppo</li> </ul>			es.	
100		8	78C, 50 Pairs #18, IS/OA.		5. All equipment and de	vices	shall be provided with	nameplate tags per		to u	rmine, based up se cable tray v	ertical or I	nditions, whei norizontal be
DEPARTMENT OF TRANSPORTATION		9	27C, 3/C #6 + #8G.		drawings.					horiz • Refe	zontal tees or r to AS-sheets	reducers. to determin	ne the type (
		21C, 2-1 pair #18 (for Call Box signal) shielded pairs and overall shield.  21C, 3#12 (for Call Box power).		6. All feeders and branch circuits shall be provided with ground wire.					supp	ort to use base e tray support	ed on field	conditions.	
				7. 15 kV splice boxes shall be installed as shown and permanently marked "DANGER-HIGH VOLTAGE-KEEP OUT". The letters shall be block type					are	generic and mag itions.			
		12	21C, (4) 1 pair #18 (for Call Box sig		and at least 50 mm			in de brock Type		o All m	nodifications to	the cable	tray support
		rdir 01 (2) 1-2 parts #10, silierded parts did overdir silierd.		8. The Contractor shall	label	all conductors and cab	oles per wiring diagrams			hown on the AS <sup>.</sup> dent Engineer.	-sheets sha	l be approve	
		13 78C, 2#2 + #6 G and 2#10 + #10 G (for CMS Power).  14 78C, Harness #4 and Harness #5 (for CMS Signal).  15 41C, Cable type TVP and TVCP (for CCTV Power).			<ol> <li>Padlocks shall be installed on all cabinets located on the platforms to prevent unauthorized access.</li> </ol>					22. All inst	tallation of ele	ctrical cond	duit, equipmen
										•	exes shall be ei	•	
.					<ol> <li>Call boxes will be State-furnished. (The Contractor shall install and terminate conductors per wiring diagram.</li> </ol>				Approp	le trays shall b riate type of o	inchors (hol	d down brack	
⋖		16	41C, Cable type TVC and TVL (for CCTV Control Signal). 41C, Cable type MVDS DLC (for MVDS Signal).			•				clamps	or guides) sha on and supports	II be used t	o suit the c
S.		18			11. Ladder type cable trays shall be installed for each 15 kV and 600 V systems.			<del>25)</del>	~~~TYPE I	& II on E-122A	and E-205A.	· · · · · · · · · · · · · · · · · · ·	
CAL   FORN   A	y	78C, Cable type 10 DLC (for Preformed Loop Signal).  21 27C (Liquidtight flexible metal conduit) 6#10 + #10 G.  22 27C (Liquidtight flexible metal conduit) 3#10 + #10 G.  23 27C, 7#10 + #10 G.			12. Solid bottom cable trays shall be installed for each low level signals, CALTRANS communications, fiber optic systems, and for Non-Caltrans utilities.				ALTRANS {	24. Contractor shall seal all wall penetrations wit within the dehumidified area using a rubber penetration expand to fill the gap between the penetration of the pen			
2	Ş۱				13. For Strong Motion Detection System general notes, see sheet E-361.				}				
일 일 3	ស្ 📗							conduit to create a seal. Caulking (silicone be used at these locations.					
STATE OF	8				14. All dimensions are in millimeters upless otherwise shows  ELECTRICAL NO				IOTES A	MD A	BBREVI		
		24 27C, 6#10 + #10 G.			13. All difficults die in militumerers diffess offici wise shown.								
<b>│</b> │╹	<b>y</b>	لـــــا			16. All unused conductor	s insi	de pull boxes shall be	taped and coiled.	F -\T*\13103\M\$\peo				

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DIST COUNTY ROUTE 13.2/13.9 93R5 1204

12/19/02 PROFESSIO JENS ERLINGSSON ю. 8249 Exp. 9/30/06 ELECTRICAL

or agents shall not be responsible for onic copies of this plan sheet.

the web site, go to http://www.dot.ca.gov

	REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE								
<u>\( \) \( \) \( \) \( \)</u>	12/11/09	TOWER UTILITY PANELS	JS TW	RG FW	70				
4	10/10/08	LIGHTING REVISIONS	RY AG	RG FW	43				
<u></u>	09/24/08	CABLE ELECTRICAL	RR AG	RG SE	72				
2	02/25/08	CABLE TRAY CHANGES	RG	SE	4251				
$\triangle$	02/19/08	ELECTRICAL MODIFICATIONS	MP EL	RR	42				
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#				
REVISIONS									

- this detail conduit sizes.
- d to the box box girders and r and crossbeam he Engineer.
- ower shall be ew and approval
- lf-anchored ical equipment, lighting II be shop all appear on val by the
- tructures, the
  - the locations
  - hen and where bends,
  - e of cable tray
  - the AS-sheets to suit field
  - ort structures oved by the
- ment or olted.
- to support.
  ackets, hold down
  e cable tray type,
  ment details, see
- with conduit pipeseal that will ation sleeve and ne caulk) shall not

VIATIONS

E-8